Approved For Release 2000/09/11 : CIA-RDP78-02820A000500020037-4

CONFIDENTIAL

12 May 1959

MEMORANDUM TO THE FILE

25X1A9a FROM : [redacted]

SUBJECT : Trip Report to [redacted], Asbury Park, N. J. 25X1A5a

25X1A6a REFERENCE: [redacted] 59-710

25X1A2d1 PROJECT : [redacted]

1. A trip was made to the [redacted] Asbury Park, N. J., 25X1A5a on 22 April 1959 for the purpose of discussing the procurement and availability of 3 element Yagi antennas, in the 6 - 7 mc. frequency range, to fulfill antenna requirements for [redacted] In order to 25X1A2d expedite procurement and to avoid the necessary preliminary security clearances usually required it was necessary to utilize cover identification. If the equipment met the necessary specifications, it was desired to utilize a cleared non-government contract to purchase the equipment.

2. Those present at the [redacted] were: 25X1A9

25X1A5a1 a) [redacted]
b)

25X1A9a c) [redacted]

25X1A9a 3. [redacted] had previously been notified, a week before, of the preliminary antenna specifications and the necessary material and prices were available. The antenna array proposals would consist of a 3 element Yagi, pretuned for any specific frequency in the 6 - 7 mc. range, erected on a 64-foot self-supporting tower with associated rotatable equipment. Preliminary specifications were given as follows:

a) Gain 8.5 db
b) Horizontal beam width approximately 60° at 3 db points
c) Front to back ratio 27 db
d) VSWR on design frequency 1.1 to 1
e) Band width 3% within a 2 to 1 VSWR
f) Power handling capability 5 kw. at 100% a.m.
g) Boom length 42 feet
h) Element length approximately 65 Feet
i) Turning radius 40 feet
j) Design wing load rating 85 miles per hour

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4. Although the mechanical design specifications stated are not 100% satisfactory for the area involved due to the inclement winter weather which might have winds exceeding 85 miles per hour, it would not be feasible to have this detail altered as it would involve mechanical redesign of the antenna and development costs. Due to the urgency of the requirement for these antennas, time precludes any investigation into this phase. The field requested two such antennas for the 6 - 7 mc. band and one 11 mc. antenna, via dispatch, dated 1 April 1959, with requested delivery 15 May 1959. This delivery date cannot be met, however, it will be possible to deliver the equipment to the field the latter part of June 1959.

5. Prices quoted are as follows:

a)	Antenna, 3 element, 6.4 mc. at $ 1850	$ 1,850
b)	Antenna, 3 element, 6.8 mc. at $ 1850	1,850
c)	Antenna, 3 element, 11.55 mc. at $ 1050	1,050
d)	Rotator, Model 800 RIB, 3 ea. at $ 795	2,385
e)	Tower, 64 foot, 3 ea. at $ 550	1,650
	Estimated total less contingency	$ 8,785

NOTE: The proposed beam antennas are not a company [redacted] stock item and actually the project involves the slight redesign of the [redacted] 40 meter 3 element beam antenna. 25X1A9 25X1A5a1

6. In addition to the manufacturing plant employing from 30 to 60 persons, depending upon the work load, the [redacted] also have an antenna lab located in a remote site several miles from the main plant where impedance measurements are made upon full scale arrays which are erected and tested in operation, primarily upon assigned amateur frequencies. Each antenna will be furnished with a Smith Chart to determine the relative band width of each array and to guarantee the 3% bandwidth without exceeding a 2 to 1 VSWR. The antennas will be packed in containers approximately 15" x 18" x 18' in order to facilitate air shipment. 25X1A

7. Consequently, in order to fulfill the project requirement and to expedite procurement, it was necessary to initiate purchase negotiations at that time. The necessary coordination has been effected with the Office of Logistics and it is expected that delivery of the items will be approximately 15 June.

[redacted] 25X1A

Attachments:
1. Descriptive Drawing 6 - 7 mc. Yagi
2. Specification Sheet 3 Element 6 - 7 mc. Yagi

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